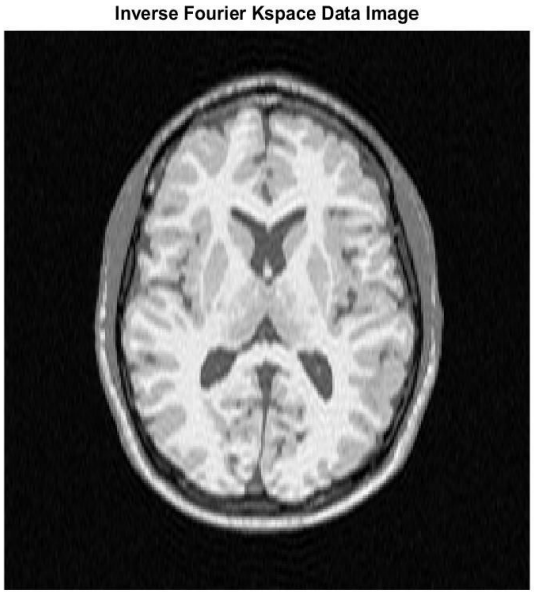
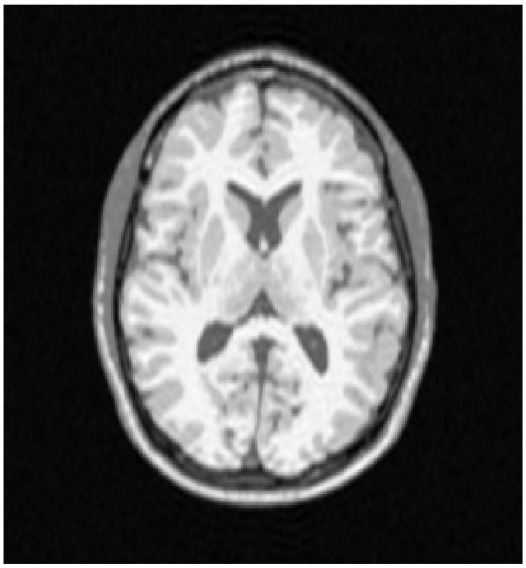
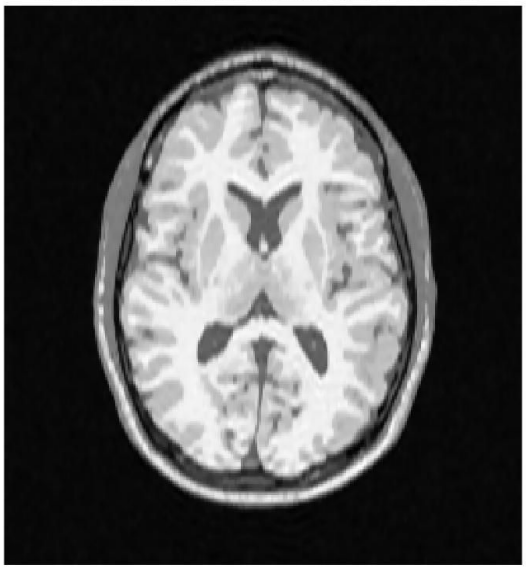
Assignment 3 : Q2: Report

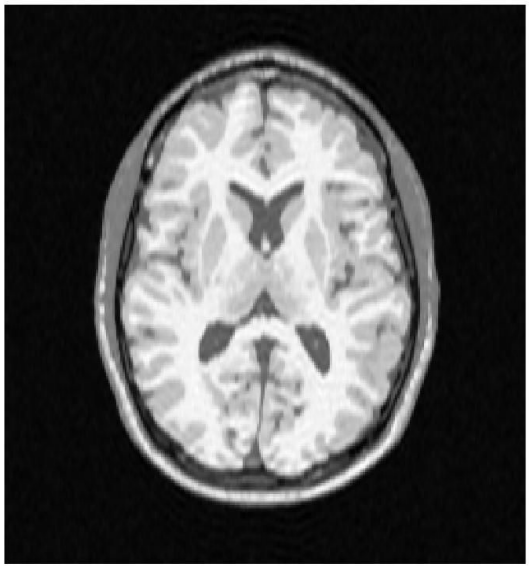
Question 2 *Reconstruction of Magnetic Resonance Image of the Brain*

Part a

Corresponding images for Different Type of Prior

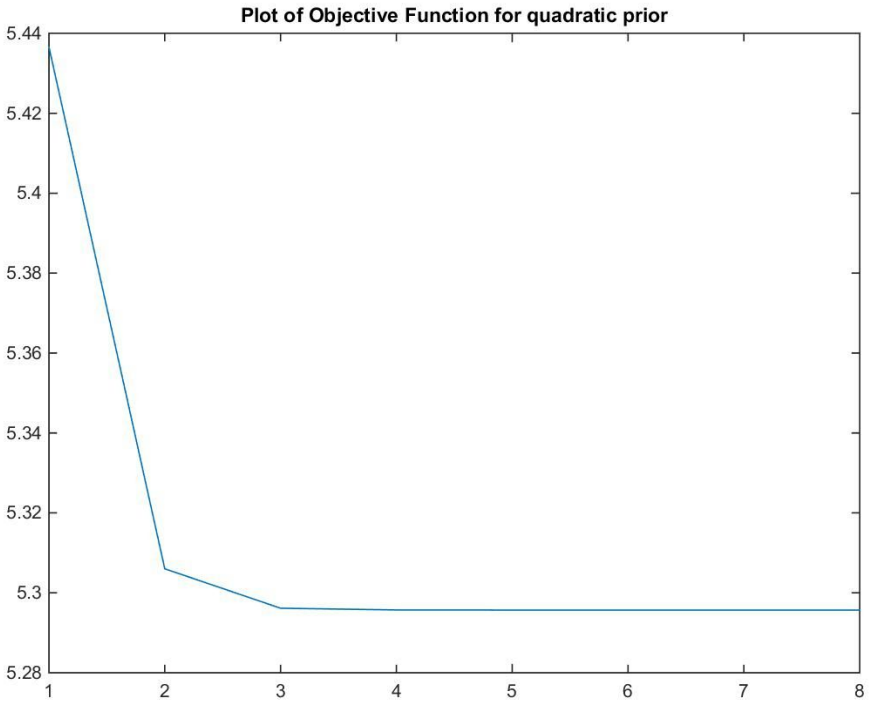
Description	Specific
Inverse Fourier Transform Image	

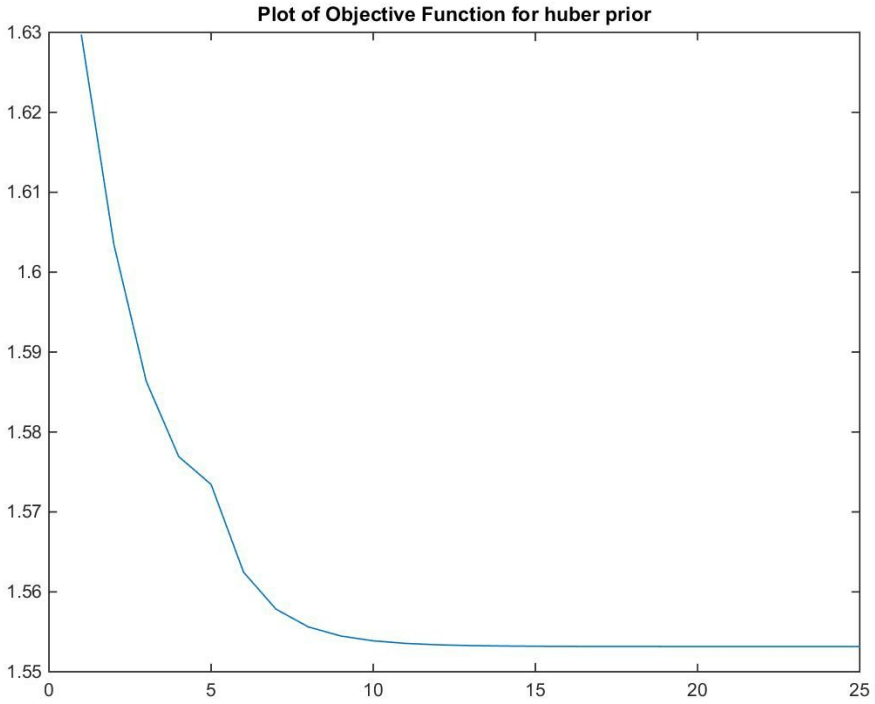
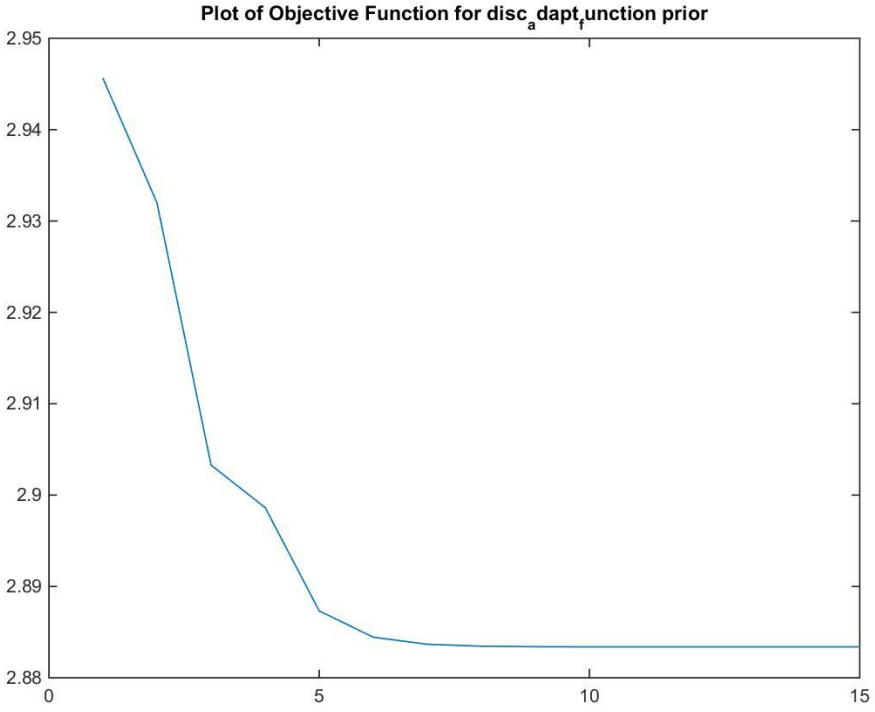
Quadratic Prior	
Huber Prior	

Discontinuity adaptive function Prior	Optimal Image of Reconstructed Brain for $disc_a dapt_f unction$ prior 

Part c

Corresponding plots of Objective Function for Different Type of Prior

Prior Type	Plot of log of Objective Function
Quadratic	

Huber	
Discontinuity-Adaptive Huber Prior	

Disclaimer

All the images and corresponding plots in high resolution can be found in ‘images’ folder of question 2. Sub folder are made for different priors and you can locate optimal images and objective function plot.